

	L #	Hits	Search Text	DBs	Time Stamp
1	L1	8791	DLC or ((diamondlike or (diamond adj like)) adj carbon) or diamondlikecarbon	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:22
2	L2	1795	"a-C:H" or "aC:H" aCH.m/c.	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:25
3	L3	23699 2	(H.u/c. or hydrogen or hydrogenat\$4) near2 (C.u/c. or carbon)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:33
4	L4	1238	3 near2 ("alpha." or amorphous)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:34

SN 10/019, 852

2

	L #	Hits	Search Text	DBs	Time Stamp
5	L5	11200	1 or 2 or 4	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:35
6	L6	2597	5 same (thick thickness ".ang." angstrom)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:36
7	L7	684	5 same (density "g/cm.sup.3" "g.multidot.cm.sup.-3 ")	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:39
8	L8	0	5 same ((H.u/c. hydrogen) near2 (percent ".percent."))	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:53

105
37

L16
fix spell percent

3

	L #	Hits	Search Text	DBs	Time Stamp
9	L9	0	5 same ((H.u/c. hydrogen) near5 (present ".present."))	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:44
10	L10	2642	5 same (H.u/c. hydrogen hydrogenat\$4)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:45
11	L11	248	6 and 7 and 10 .	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:45
12	L12	227	11 and plasma	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:45

	L #	Hits	Search Text	DBs	Time Stamp
13	L13	167	5 same (bottle container)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:47
14	L14	19	12 and 13	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:47

L15 - PN 4,809876 - Tomes wish ref

Coat food container w/ DLC

col 4, l 25-30 P ~ 1.7 - 1.8 g/cm³

d 1-6 thick ~ 1000 μ m

d 12-17 μ m. 20-40% etch

14-15
18-19

w/ gelly fixed

8 so L16 5 sam \Rightarrow 37 hits

(L17) 6 + 7 of 16 \Rightarrow 31 hits

(L18) 17 not 14 \Rightarrow 28 hits

(L19) 18 and 13 \Rightarrow 0

(L20) 18 + plasma \Rightarrow (26)

(L21) 18 + plastic = 14

(22) 20 or 21 \Rightarrow 26

L23 20 ad 21 \Rightarrow 14

L14

	Document ID	Issue Date	Title	Current OR	Inventor
1	US 2003012 4449 A1	20030703 f.d. 6/29/02	Process and apparatus for manufacturing electro photographic photoresistive member	430/128	Okamura, Ryuji et al.
2	US 2003012 4229 A1	20030703 NPA	Plastic container for dry solid food	426/106	Hama, Kenichi et.al.
3	US 2001001 8127 A1 cont. 081278,716	20010830 f.d. 3/16/01	[Coulis] $DLC = \alpha \cdot C \cdot n^1/2$ 110-50 at % H, $\rho = 2.265$ g/cm ³ Diamond-like carbon coating on inorganic phosphors	428/404	[0026] - thick DLC = 10-100 μ m David, Moses M. et al.
4	US 6589619 B1 4/10/97-371 2121-PCP pub	20030708 f.d. 4/10/01	Ab - plastic container having a surface of thickness 0.05-5 μ m (DLC) when the plasma is generated. DLC = α -C:H, α -CH ₂ Recycling method	428/36.6	Nagashima, Kazufumi
5	US 6548172 B2	20030415	Diamond-like carbon coatings on inorganic phosphors	428/403	David, Moses M. et al.

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	Document ID	Issue Date	Title	Current OR	Inventor
6	US 6265068 B1	20010724	Diamond-like carbon coating on inorganic phosphors	428/403	David, Moses, M. et al.
7	(B10) the term "D-L-C-plate" US 6071597 A	20000606	Flexible circuit and carrier for manufacture	(B11) Stable-Cal 428/209	$\rho = 1.6 - 3.0$ g/cm ³ Yang, Rui et al.
8	(D5) Fig. 5 shows DLC 500 - 3000 Å US 5853833 A	19981229	Sanitary container and production process thereof	428/36.6	Sudo, Morihirō et al.
9	US 5844225 A	19981201	Abrasion wear resistant coated substrate product	235/462.01	Kimock, Fred M. et al.

Pull it (D11) Film dep. of 1st coating ... DLC $\log \geq 50\%$

(D13) It has morphology

X (P39) plasma beam density

(P110) Specific exp... thicker than 2 nm the DLC ... can't both SiO₂ & then DLC

	Document ID	Issue Date	Title	Current OR	Inventor
10	US 5798139 A	19980825	Apparatus for and method of manufacturing plastic container coated with carbon film	427/237	Nagashima, Kazufumi et al.
11	US 5643423 A	19970701	Method for producing an abrasion resistant coated substrate product	204/192 .35	Kimock, Fred M. et al.
12	US 5637353 A	19970610	Abrasion wear resistant coated substrate product	427/255 .34	Kimock, Fred M. et al.

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	Document ID	Issue Date	Title	Current OR	Inventor
13	US 5635245 A	19970603	Process of making abrasion wear resistant coated substrate product	427/249 .7	Kimock, Fred M. et al.
14	US 5562781 A	19961008	Amorphous, hydrogenated carbon (a-C:H) photovoltaic cell	136/249	Ingram, David C. et al.
15	US 5527596 A	19960618	Abrasion wear resistant coated substrate product	428/216	Kimock, Fred M. et al.
16	US 5508092 A	19960416	Abrasion wear resistant coated substrate product	428/216	Kimock, Fred M. et al.
17	US 5506038 A	19960409	Abrasion wear resistant coated substrate product	428/216	Knapp, Bradley J. et al.

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	Document ID	Issue Date	Title	Current OR	Inventor
18	US 5268217 A	19931207	Abrasion wear resistant coated substrate product	428/216	Kimock, Fred M. et al.
19	US 5162875 A	19921110	Protective layer for electro active passivation layers	257/636	Birkle, Siegfried et al.

Abs - the α -C:H

(B9) Accard... α -C:H

(B10) Amorphous. (α -C:H) = DLC + 10-40% aha

(B11) Acc... thickness: 0.05~3μm

:C:H

x (D7) In the case power density